	Application No.	Applicant(s)
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Notice of Allowability	10/533,344 Examiner	PABST, THOMAS BERNHARD Art Unit
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· · · · · · · · · · · · · · · · · · ·	Hien D. Vu	2833
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	IS (OR REMAINS) CLOSED in 35) or other appropriate community RIGHTS. This application is s	n this application. If not included unication will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>the communication</u>	on 12/21/07.	
2. The allowed claim(s) is/are 1.3-18 and 20.		
3. Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None of the:		or (f).
1. Certified copies of the priority documents ha		
2. Certified copies of the priority documents ha	, ,	
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DAT noted below. Failure to timely comply will result in ABANDO! THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be sull INFORMAL PATENT APPLICATION (PTO-152) which g		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsp	erson's Patent Drawing Reviev	w (PTO-948) attached
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date	·	
(b) ☐ including changes required by the attached Examine Paper No./Mail Date	er's Amendment / Comment or	in the Office action of
Identifying indicia such as the application number (see 37 CFI each sheet. Replacement sheet(s) should be labeled as such i	R 1.84(c)) should be written on t n the header according to 37 CF	he drawings in the front (not the back) of R 1.121(d).
6. DEPOSIT OF and/or INFORMATION about the de attached Examiner's comment regarding REQUIREMEN		
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Attachment(s)	<u>_</u>	
1. Notice of References Cited (PTO-892)		formal Patent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-948		ummary (PTO-413), /Mail Date
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date		Amendment/Comment
4. Examiner's Comment Regarding Requirement for Deposition of Biological Material	it 8. 🗌 Examiner's	Statement of Reasons for Allowance
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EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mark Harrington on 12/21/07.

The application has been amended as follows:

1. (Currently amended) A connector for at least one flat flex cable comprising:

a housing comprising <u>a top wall and</u> at least one introduction opening for a flat flex cable end,

spring contacts connected to the housing for connecting the at least one flat flex cable with contacts or another flat flex cable, and

at least one strain relief, wherein the strain relief has a slide, which is <u>sized and shaped</u> to be introduced into the introduction opening over the flat flex cable in a direction at least partially along an introduction direction of the flat flex cable into the introduction opening, wherein the flat flex cable is bent by a rib on the slide into a recess at a bottom of the housing proximate the introduction opening until the slide locks in a final position on the housing, <u>further characterized in that the slide forms a ramp, whose back end projects above the top wall and a level of the opening during introduction into the opening and slides on the upper edge of the introduction opening, whereby the rib is</u>

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pressed into the recess, and wherein the slide has a section, on a back end of the slide, with an operating surface for pressing the slide therein.

- 2. (Cancelled)
- 3. (Currently amended) The connector according to claim 1, wherein the slide comprises a shoulder for locking the ramp.
- 4. (Previously presented) The connector according to claim 1, further characterized in that the spring contacts, at a head end of the introduction opening, are prestressed perpendicular to longitudinal axis press on regions of conductive tracks of the flat flex cable that are stripped of insulation.
- 5. (Previously presented) The connector according to claim 4, further characterized in that the spring contacts are essentially bent in U-shape and comprise legs which are pressed onto the flat flex cable by two ramps on the slide.
- 6. (Previously presented) The connector according to claim 4, further characterized in that the spring contacts are formed with ends pointing away from the introduction opening as female connectors or plug contacts.
- 7. (Previously presented) The connector according to claim 4, further characterized in that the spring contacts are bent in U-shape at both of their ends and two introduction openings are disposed with their head ends abutting one another in housing for connecting two flat flex cables.
- 8. (Previously presented) The connector according to claim 1, further characterized in that the introduction opening takes up two flat flex cables, and two rows of spring contacts are provided one above the other.

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- 9. (Previously presented) The connector according to claim 8, further characterized in that the spring contacts are held by an intermediate member in the introduction opening, and this member can be moved to the head end of the introduction opening by a slider and can be propped open at its back ends, in order to press strain relief projections disposed therein into corresponding openings punched in the flat flex cables.
- 10. (Previously presented) The connector according to claim 9, further characterized in that at the level of openings in the flat flex cables, housing has slots, into which the strain relief projections of intermediate member can be moved.
- 11. (Previously presented) The connector according to claim 8, further characterized in that the spring contacts are bent convexly at their legs that can be pressed onto flat flex cables and are pressed by shoulders of intermediate member onto the flat flex cables.
- 12. (Previously presented) The connector according to claim 11, further characterized in that on its head end, the intermediate member has ramps, with which the legs of spring contacts located away from the flat flex cables are to be pressed onto the flat flex cables.
- 13. (Previously presented) The connector according to claim 8, further characterized in that the slide can be locked in its final position on housing.
- 14. (Previously presented) The connector according to claim 1 wherein the introduction opening comprises a slot into a rear end of the housing, wherein the strain relief is inserted into the slot through the rear end of the housing.

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- 15. (Previously presented) The connector according to claim 1 wherein the strain relief comprises a slot adapted to receive the end of the flat flex cable.
 - 16. (Currently amended) A connector for a flat flex cable comprising:
 - a housing comprising an opening adapted to receive an end of the flat flex cable;

spring contacts connected to the housing, wherein the spring contacts are adapted to connect to electrical conductors of the flat flex cable; and

at least one strain relief connected to the housing, wherein the strain relief comprises a slide extending through the opening, wherein the strain relief comprises a slot adapted to have the end of the flat flex cable pass therethrough, wherein the slide comprises a rib, and wherein the flat flex cable is bent by the rib on the slide which is pushed inwardly at a rear end of the housing into a recess of the housing when the slide is locked into a final position on the housing, wherein the slide comprises a ramp having a rear end extending above the housing adapted to contact the housing and adapted to move the slide in a second direction when the strain relief is moved in a first direction inward into the rear side of the housing.

17. (Currently amended) A connector for a flat flex cable comprising:

a housing comprising an rear side having a slot adapted to receive an end of the flat flex cable;

spring contacts connected to the housing, wherein the spring contacts are adapted to connect to electrical conductors of the flat flex cable; and

at least one strain relief extending into the rear side of the housing at the slot, wherein the strain relief is movably connected to the housing such that the strain relief is

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adapted to be pushed inward into the rear side of the housing, wherein the strain relief

comprises a slide having a rib, and wherein the rib is adapted to bend the flat flex cable

into a recess of the housing when the slide is slid through the rear side of the housing

into the slot, wherein the slide comprises a ramp having a rear end extending above the

housing adapted to contact the housing and adapted to move the slide in a second

direction when the strain relief is moved in a first direction inward into the rear side of

the housing.

18. (Previously presented) The connector according to claim 17 wherein the

strain relief comprises a slot adapted to pass the end of the flat flex cable therethrough.

19. (Cancelled)

20. (Previously presented) The connector according to claim 17 wherein the

strain relieve comprises a latch for latching the slide in a final position on the strain

relief.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Hien D. Vu whose telephone number is 571-272-2016.

The examiner can normally be reached on 9-5.

HV

12/21/07

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